

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number  
**WO 2005/079638 A1**

(51) International Patent Classification<sup>7</sup>: **A47J 31/06**,  
31/40

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(21) International Application Number:  
PCT/GB2005/000469

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(22) International Filing Date: 11 February 2005 (11.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0403496.3 17 February 2004 (17.02.2004) GB

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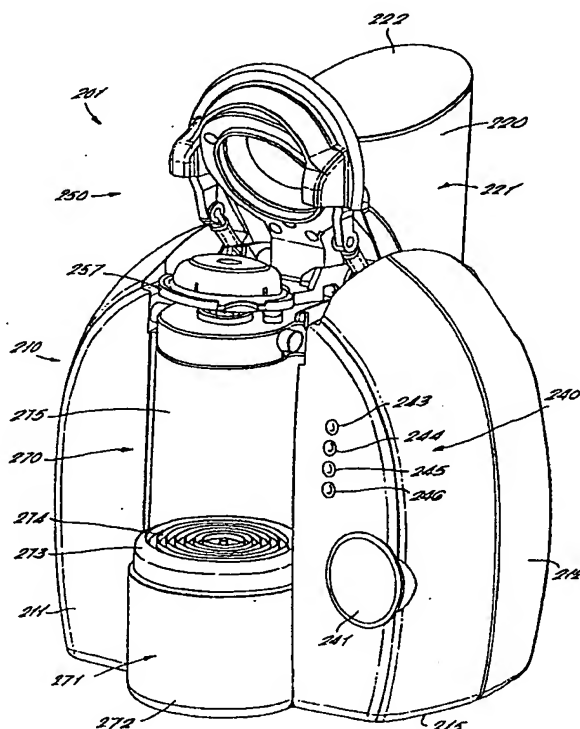
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(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

[Continued on: next page]

(54) Title: AN INSERT, A MACHINE AND A SYSTEM FOR THE PREPARATION OF BEVERAGES



(57) Abstract: An insert (400) for use in a beverage prepa-  
ration machine (201) of a type comprising a brew head (250)  
comprising an upwardly directed inlet (253) for supplying wa-  
ter to the brew head (250) and a downwardly directed outlet  
(254) for outflow of beverage produced by the machine (201).  
The insert (400) comprises, or is adapted to contain in use, a  
quantity of beverage ingredients in a brewing volume. A lower  
surface of the insert (400) comprises an inlet (405) and an out-  
let (404) arranged to communicate respectively with the inlet  
(253) and outlet (254) of the brew head (250) of the beverage  
preparation machine (201) when the insert (100) is inserted  
into the machine such that, in use, water from the inlet (253)  
of the brew head (250) passes upwardly through the inlet (405)  
of the insert (400) into the brewing volume and such that bev-  
erage produced from the water and the quantity of beverage  
ingredients passes downwardly through the outlet (404) of the  
insert (100) to flow out of the outlet (254) of the brew head  
(250). The lower surface of the insert (400) further comprises  
a RFID or barcode (320) which, in use, is readable by a RFID  
or barcode reader of the beverage preparation machine (201)  
for controlling operation of the beverage preparation machine  
(201), wherein the barcode (320) or RFID is located on the  
lower surface of the insert (400) such that a line joining the  
outlet (404) of the insert (400) to a centre of the barcode (320)  
or RFID and a line joining the outlet (404) of the insert (400)  
to the inlet (405) of the insert (400) separated by a minimum  
angular separation of greater than 70 degrees.

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SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations* AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ,

NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

- *of inventorship (Rule 4.17(iv)) for US only*

**Published:**

- *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*